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Managing the combination of non-alcoholic fatty liver disease and metabolic syndrome

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We read with great interest the review by Moscatiello *et al.* [1] on the importance of targeting all components of the metabolic syndrome (MetS) in the treatment of non-alcoholic fatty liver disease (NAFLD). A few comments may be of interest.

One of the hallmarks of MetS is the presence of too many definitions; the joint interim statement of several major organisations published in 2009 [2] attempts to overcome this issue. In this context, the selection of diagnostic criteria may influence the prevalence of MetS [3].

Apart from other cardiovascular risk factors, possible links between NAFLD and elevated serum uric acid (SUA) levels [4] or chronic kidney disease [5] have been recently proposed. Based on this concept, SUA and renal function should be monitored in NAFLD patients.

The clinical significance of statin use in the treatment of both NAFLD and MetS has been reported [6.7]. Recently, in a *post hoc* analysis of the Greek Atorvastatin and Coronary Heart Disease Evaluation (GREACE) study [8.] statin treatment was associated with significantly less vascular events in patients with coronary heart disease (CHD) and NAFLD (68% relative risk reduction) compared with those with CHD but no NAFLD (39% relative risk reduction; p < 0.007). Furthermore, in the majority of patients with abnormal liver function tests (LFTs) (i.e., < 3 times the upper limit of normal) at baseline, statins improved LFTs, whereas these biomarkers were worsened in those patients not receiving statins [8]. These beneficial effects of statins on liver biomarkers, along with previously reported favourable changes in renal function [9], support their use in NAFLD treatment.

Declaration of interest

The authors state no conflict of interest and have received no payment in preparation of this manuscript.

Bibliography

- Moscatiello S, Di Luzio R, Sasdelli AS, et al. Managing the combination of non-alcoholic fatty liver disease and metabolic syndrome. Expert Opin Pharmacother 2011;12:2657-72
- Alberti KG, Eckel RH, Grundy SM, et al. Harmonizing the metabolic syndrome: a joint interim statement of the International Diabetes Federation Task Force on Epidemiology and Prevention; National Heart, Lung, and Blood Institute; American Heart Association; World Heart Federation; International Atherosclerosis Society; and International Association for the Study of Obesity. Circulation 2009;120:1640-5
- Athyros VG, Ganotakis ES, Tziomalos K, et al. Comparison of four definitions of the metabolic syndrome in a Greek (Mediterranean) population. Curr Med Res Opin 2010;26:713-19
- Katsiki N, Athyros VG, Karagiannis A, et al. Hyperuricaemia and Non-Alcoholic Fatty Liver Disease (NAFLD): a Relationship with Implications for Vascular Risk? Curr Vasc Pharmacol 2011;9:698-705
- 5. Targher G, Chonchol M, Zoppini G, et al. Risk of chronic kidney disease in

patients with non-alcoholic fatty liver disease: is there a link? J Hepatol 2011;54:1020-9

- Athyros VG, Tziomalos K, Daskalopoulos GN, et al. Statin-based treatment for cardiovascular risk and non-alcoholic fatty liver disease. Killing two birds with one stone? Ann Med 2011;43:167-71
- Swislocki AL, Siegel D, Jialal I. Pharmacotherapy for the Metabolic Syndrome. Curr Vasc Pharmacol 2011; Epub ahead of print
- Athyros VG, Tziomalos K, Gossios TD, et al. GREACE Study Collaborative Group. Safety and efficacy of long-term statin treatment for cardiovascular events in patients with coronary heart disease and abnormal liver tests in the Greek Atorvastatin and Coronary Heart Disease Evaluation (GREACE) Study: a post-hoc analysis. Lancet 2010;376:1916-22
- 9. Athyros VG, Mikhailidis DP, Liberopoulos EN, et al. Effect of statin treatment on renal function and serum uric acid levels and their relation to vascular events in patients with coronary heart disease and metabolic syndrome: a subgroup analysis of the GREek Atorvastatin and Coronary heart disease

Evaluation (GREACE) Study. Nephrol Dial Transplant 2007;22:118-27

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